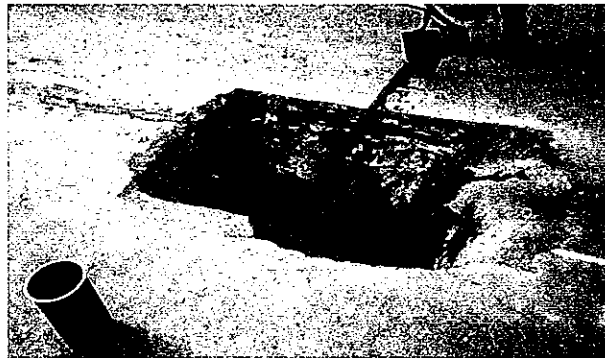




CITY OF ROANOKE RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS – SECOND REVISION



Department of Public Works
Transportation Division
1802 Courtland Road
Roanoke, Virginia 24012

December 1, 2004
First Revision: March 1, 2006
Second Revision: May 1, 2008



THESE SECOND REVISION STANDARDS ARE HEREBY APPROVED: Mark D. Jamison DATE: 5/1/08
MARK D. JAMISON, P.E.
TRANSPORTATION DIVISION MANAGER



City of Roanoke
Right of Way
Excavation and Restoration Standards – Second Revision

December 1, 2004

First Revision: March 1, 2006

Second Revision: May 1, 2008

PRELIMINARY STATEMENT

- A. The purpose of these Right of Way Excavation and Restoration Standards (Standards) is to establish standards and guidelines governing excavations and restorations within the public Right of Way of the City of Roanoke, Virginia. The intent of these Standards is to preserve and extend the service life of the public infrastructure and to prevent pavement failures and settlement resulting from excavations. The City's objective is to ensure the integrity of its street infrastructure, provide for the public safety, and minimize inconvenience to the traveling public. These Standards are necessary for the benefit, safety and general welfare of the public.
- B. The City of Roanoke acknowledges the need and obligation to accommodate utilities in the public Right of Way. It is expected that utilities and private contractors understand the primary purpose of public roadways and walkways is to provide for the safe and efficient travel of the public. This purpose has precedence over any secondary use of the Right of Way.
- C. Under these Standards a more comprehensive permit process is created to regulate excavations in the public Right of Way by public utilities, private contractors or any person.
- D. The excavation permitting process should minimize the impact of construction on neighborhood residents and businesses by enforcing cleanliness and safety standards for construction sites, imposing strict timelines for construction, and requiring a durable restoration of the Right of Way with a uniform visual appearance and good ride quality.
- E. The Right of Way permitting process must allow the City to enforce compliance with these Standards.
- F. These Standards detail a process for reviewing, denying, approving and conditionally approving permits.
- G. These Standards are intended to minimize disruption to the public by improving the coordination of excavation work, which will help to ease traffic congestion, and limit inconvenience to residents of and businesses in the City of Roanoke.
- H. These Standards provide for the establishment of regulations for the control of excavation sites that include protection of trenches and excavated material, prompt removal of excavated materials, and procedures for the treatment and remediation of hazardous material found in the public Right of Way.



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- I. Prompt restoration of the public Right of Way is an essential element of these Standards and will be strictly enforced.
 - J. In an effort to minimize disruption caused by construction in the public Right of Way, all work within the public Right of Way shall be coordinated through the Transportation Division. This office is responsible for permitting and coordinating excavations and utility cuts.
 - K. The City of Roanoke shall comply with these Standards.
 - L. These Standards will apply to permits issued on and after the effective date of these Standards.
 - M. The effective date for this Second Revision of these Standards is May 1, 2008. See Section 1.5 for the applicability of these Second Revision Standards.

APPROVAL OF RIGHT OF WAY EXCAVATION AND RESTORATION STANDARDS BY
CITY MANAGER

Pursuant to the authority granted to me by the Roanoke City Code Section 30-49, I hereby approve and adopt this Second Revision dated May 1, 2008, of the City of Roanoke Right of Way Excavation and Restoration Standards, and I further designate the Transportation Division Manager as my agent for the purposes of implementing and administering these Standards.

Darlene L. Burcham
City Manager

5-1-08

Date



Phone Numbers

Transportation Division Inspector's Office	540-853-2856
Landscape Coordinator	540-853-1756
Miss Utility of Virginia	1-800-552-7001
Office of the City Engineer	540-853-2731
Transportation Division	540-853-2676
Office of Environmental Administrator	540-853-1173
Police Non-Emergency Number	540-853-2411
Traffic Engineering	540-853-2676
Urban Forester	540-853-1994



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1. GENERAL PROVISIONS.

1.1 EXCAVATION IN THE PUBLIC RIGHT OF WAY.

The City of Roanoke Charter, Section 2 (12), grants the City the power to regulate Right of Way use. The City Code, Chapter 30, Streets and Sidewalks, Article III, Street Excavations, grants the City Manager the authority to supervise and control the restoration of the Right of Way to its original condition. This authority has been delegated by the City Manager to the Transportation Division Manager.

1.2 PERMITS REQUIRED TO EXCAVATE.

- (a) In accordance with City Code Section 30-60, it is unlawful for any Person to make any excavation in any Public Right of Way unless a permit to do so has been obtained, except for routine maintenance and repair of street surfaces and manhole adjustments performed by or on behalf of the City. Permit requirements pertaining to an emergency excavation are addressed in Section 3.6 of these Standards.
- (b) In accordance with City Code Section 30-61, any Person desiring a permit shall complete an application for such permit.
- (c) The Transportation Division shall issue a permit to excavate only if the Applicant has the legal authority to occupy and use the Public Right of Way for the purposes identified in the application for the permit.

1.3 ORDINANCES AND REGULATIONS.

In addition to the requirements set forth in these Standards, the City may adopt such ordinances, resolutions, regulations, or policies, as it deems necessary in order to preserve and maintain the public health, safety, welfare, and convenience. Each excavation in the Public Right of Way pursuant to these Standards shall be performed in accordance with the following:

- (a) The applicable sections of Chapter 30, Streets and Sidewalks, Code of the City of Roanoke (1979), as amended.
- (b) The latest edition and applicable sections of the Virginia Department of Transportation Road and Bridge Specifications and Standards.
- (c) The latest edition of the Manual for Uniform Traffic Control Devices (MUTCD).
- (d) The latest edition of the Virginia Work Area Protection Manual.



- (e) The Virginia Underground Utility Damage Prevention Act, Virginia Code Sections 56-265.14, et seq.
- (f) The most current edition of the Specifications for Curb & Gutter, Entrance Ways, Trenches & Cuts adopted by the City Engineer, which is available at the Office of the City Engineer.

1.4 DEFINITIONS.

For purpose of these Standards, the following terms shall have the following meanings:

- (a) **"Applicant"** shall mean any Owner, Person, company, or entity who has submitted an application for a permit to excavate or make an opening in any City Right of Way.
- (b) **"Block"** shall mean that part of the Public Right of Way that includes the street area from the property line to the parallel and/or opposite property line in width and extending from the centerline of an intersecting street to the nearest property line or to the centerline of the next intersecting street in length.
- (c) **"City"** shall mean the City of Roanoke, Virginia.
- (d) **"Division"** shall mean the Transportation Division of the Department of Public Works.
- (e) **"Deposit"** shall mean any bond, cash deposit, or other security provided by the Applicant in accordance with its permit, franchise, or other agreement with the City.
- (f) **"Emergency Excavation"** shall mean any work in the surface or subsurface of the Public Right of Way immediately necessary for the preservation of life or property and for which there is not sufficient time to obtain a permit.
- (g) **"Excavation"** shall mean any work in the surface or subsurface of the Public Right of Way, including, but not limited to, opening the Public Right of Way; installing, servicing, repairing or modifying any Facility (ies) in or under the surface or subsurface of the Public Right of Way; and restoring the surface and subsurface of the Public Right of Way.
- (h) **"Facility"** or **"Facilities"** shall include but not be limited to, any and all cables, cabinets, ducts, conduits, converters, equipment, drains, handholds, manholes, pipes, storm sewers, pedestals, splice boxes, surface location markers, tracks, tunnels, utilities, vaults and other appurtenances or tangible things owned, leased, operated, or licensed by any entity that are located or are proposed to be located in the Public Right of Way.
- (i) **"Inspector"** shall mean the Transportation Division Inspector.



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- (j) **"Owner"** shall mean any Person, including the City, who owns any Facility or Facilities that are or are proposed to be installed or maintained in the Public Right of Way.
- (k) **"Permit Administrator"** shall mean the person to whom the Transportation Division Inspector reports.
- (l) **"Permittee"** shall mean the Applicant to whom a permit to excavate, or otherwise work in the public Right of Way, has been granted by the Department of Public Works, Transportation Division.
- (m) **"Person"** shall mean any individual, firm, owner, sole proprietorship, partnership, corporation, unincorporated association, governmental body, Commonwealth of Virginia, Federal Government, authority, commission, municipal corporation, executor, administrator, trustee, guardian, agent, occupant, or other legal entity.
- (n) **"Public Utility"** shall mean any Person or Owner whose Facility or Facilities in the Public Right of Way are used to provide electricity, natural gas, information services, sewer services, water services, telecommunications, cable television, video, or any other services to customers regardless of whether such Person or Owner is deemed a public service corporation by the Virginia State Corporation Commission.
- (o) **"Public Right of Way" or "Right of Way"** shall mean the area across, along, beneath, in, on, over, under, upon, and within the dedicated public alleys, boulevards, courts, lanes, roads, sidewalk, spaces, streets, and ways which are or will be under the permitting jurisdiction of the Department of Public Works.
- (p) **"Quality Control Plan"** shall mean a written Plan that is prepared by a Person or Permittee who performs or expects to perform Excavations under or subject to these Standards; and such Plan shall be submitted to and approved by the Transportation Division Inspector before the Plan can be used. The Plan shall only provide for alternate methods to the following: backfill material type, method of initial repair (including matching existing pavement cross-section and type), and frequency of density and moisture testing performed and certified by a VDOT-certified technician or geotechnical engineer. The Plan shall document actual field testing that demonstrates that the alternate methods meet or exceed the quality of the repair or restoration required by these Standards.
- (q) **"Standard" or "Standards"** shall mean the City of Roanoke Right of Way Excavation and Restoration Standards – Second Revision.
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- (r) **"Stop Work Order"** shall mean an order issued by the Transportation Division Inspector describing a violation and directing the Person doing the work in the City Right of Way to stop such work as directed by such order. When the Transportation Division Inspector has determined that a Person or Permittee has violated the provisions of these Standards or that an Excavation poses a hazardous situation or constitutes a public nuisance, public emergency, or other threat to the public health, safety, or welfare, the Transportation Division Inspector is authorized to issue a Stop Work Order, to impose new conditions on a permit, or to suspend or revoke a permit by notifying the person or Permittee of such action in a written, electronic, or facsimile communication.

1.5 APPLICABILITY OF SECOND REVISION STANDARDS.

The City of Roanoke Right of Way Excavation and Restoration Standards – Second Revision (Second Revision Standards or Standards) will apply to all permit applications approved on or after May 1, 2008. For any permit applications approved prior to May 1, 2008, the Right of Way Excavation and Restoration Standards with the first revision shall continue to apply to such permits for the duration of such permits. Provided, however, a Permittee may request in writing, addressed to the Permit Administrator, that its current permit be allowed to be completed under the provisions of the Second Revision Standards and that Permittee agrees to comply with and be bound by such Standards. The decision to grant or deny such request shall be made by the Permit Administrator based on a review of the request and taking into consideration how much time remains to complete the current permit, coordination of the current permit work with other projects in the area, the Permittee's past and current performance under the existing Standards, and/or such other items as the Permit Administrator determines to be relevant to the request.

2. APPLICATIONS FOR PERMITS TO PERFORM AN EXCAVATION.

2.1 APPLICATIONS.

Applications shall be submitted on the form contained in Attachment 2 in duplicate and shall contain:

- (a) The name, address, telephone, and facsimile number of the Applicant. When an Applicant is not the Owner of the Facility to be installed, maintained, or repaired in the Public Right of Way the application also shall include the name of the Owner.



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- (b) A description of the location [quadrant, nearest tax map number, purpose, method of Excavation, and surface and subsurface area of the proposed Excavation.]
 - (c) A scaled site plan showing the proposed location, dimensions of the Excavation, the nearest cross street, the Right of Way property line, a North arrow, other underground or overhead facilities in the vicinity of the proposed Excavation, trees and landscaping, and the facilities to be installed, maintained, or repaired in connection with the Excavation, and any other details as the Division may require.
 - (d) The proposed duration of the Excavation, which shall include the duration of the restoration of the Public Right of Way physically disturbed by the Excavation.
 - (e) A detailed traffic control plan if required by the Division.
 - (f) Any proposed attachments to bridges require the submittal of a detailed site plan and specifications with the permit application for approval by the Transportation Division.
 - (g) A valid original signature of the Applicant acknowledging the terms and conditions of these Standards and permit application.
 - (h) Applicable permit fee(s) by cash, check or money order made payable to the City of Roanoke. The amount of such permit fees shall be as set forth in the City's Fee Compendium.
 - (i) Proof of insurance coverage required in Section 2.2 below.
 - (j) Any other information that may reasonably be required by the Division.

2.2 INSURANCE.

The Permittee shall, at its sole expense, obtain and maintain during the life of such permit and warranty period, the insurance policies required by this Section, unless otherwise provided for in an existing franchise or other agreement with the City, or in writing by the Transportation Division. Any required insurance policies shall be effective prior to the beginning of any work or other performance by the Permittee under this Contract. Permittee shall assure that all sub-permittees have secured and maintained the following coverages. Permittee's insurance shall not have exclusions for sub-permittees. However, a Permittee may provide evidence of self-insured coverage in place of such insurance policies if such self insurance coverage is approved in writing by the City's Risk Management Officer. Furthermore, such policies and coverages shall be allowed to be used for work done by Permittee under any permits issued pursuant to these



Standards, unless additional policies and coverage are required by the Permit Administrator. The following minimum policies and coverages are required:

(a) The following minimum insurance requirements apply:

1) Workers' Compensation and Employers' Liability:

The Permittee shall obtain and maintain the following limits:

Workers' Compensation: Statutory

Employers' Liability: \$100,000 bodily injury by accident each occurrence
\$500,000 bodily injury by disease (policy limit)
\$100,000 bodily injury by disease each employee

2) Commercial General Liability:

Coverage is to be written on an "occurrence" basis, \$1,000,000 minimum limit, and such coverage shall include:

- Products/Completed Operations
- Contractual Liability
- Broad Form Property Damage
- Protective Liability for Operations of Sub-Permittees (if any)
- Personal Injury and Advertising Injury
- Bodily Injury

DELETE X, C, and U Exclusions

3) Automobile Liability to be written on an "occurrence basis":

Limits for vehicles owned, non owned or hired shall not be less than:

- \$1,000,000 Bodily Injury and Property Damage combined single limit

4) Environmental Impairment Liability: If applicable, as determined by the City:

- \$1,000,000 per occurrence

(b) Proof of Insurance Coverage: The policies of insurance shall be purchased from a reputable insurer licensed to do business in Virginia and maintained for the life of all work to be done by the Permittee. Other insurance requirements include the following:

1) The Permittee shall furnish the City with the permit application, together with the required certificates of insurance showing the insurer, type of insurance, policy



number, policy term, and limits, or evidence of acceptable self insurance. Such documents shall be provided to the City before any permit will be issued and before any work is done, except as otherwise provided in these Standards.

- 2) The required certificates of insurance shall contain substantially the following statement: "The insurance covered by this certificate shall not be canceled or materially altered except after a thirty (30) day written notice has been received by the City Risk Management Officer and the Transportation Division."
- 3) The required certificates of insurance shall name the City of Roanoke, its officers, agents, volunteers, and employees as additional insureds except with regard to Workers' Compensation and employers' liability coverages. Workers' Compensation and Employer's Liability coverages shall contain a waiver of subrogation in favor of the City. Additional insured and waiver endorsements shall be received by the City Risk Management Officer from the insurer within 30 days from the date of the permit application.
- 4) Such certificates of insurance or evidence of self insurance may be submitted by a Permittee to the City with a request that they be valid for a period of one (1) year to cover all permitted work to be done by the Permittee for such time period. If the Transportation Division approves such request, separate certificates of insurance or evidence of self insurance will not need to be provided to the City during that period of time. Provided, however, the City Risk Management Officer may require at any time increased amounts of coverages or separate insurance certificates of insurance or evidence of self insurance from the Permittee if such officer determines such action is needed to protect the interest of the City.
- 5) Such insurance coverage amounts may be provided by an excess insurance policy following the form of the underlying coverages.

2.3 PERMIT SECURITY.

Unless otherwise provided for in a franchise or other agreement with the City or by law, a permit security shall be required for all permits issued and the amount of such permit security shall be set by the Division during the review of the permit application. A permit security shall consist of one of the following:



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- (a) Letter of credit approved by the City's Director of Finance;
 - (b) Excavation permit bond with corporate surety in substantially the form set forth in Attachment 3 to these Standards;
 - (c) Cash; or
 - (d) Certified check made payable to the City.

Such permit security may be submitted by a Permittee to the City with a request that such security be valid for a period of one (1) year to cover all permitted work to be done by the Permittee for such time period. If the Transportation Division approves such request, separate permit securities will not need to be provided to the City during that period of time. Provided, however, the City Risk Management Officer may require at any time increased amounts for such permit security or separate permit securities from the Permittee if such officer determines such action is needed to protect the interests of the City.

2.4 PURPOSE AND DURATION OF PERMIT SECURITY.

- (a) A permit security in the approved amount must be provided to the Development Assistance Center before any permit will be issued. The permit security is to guarantee that the work performed by the Permittee under the permit is done in compliance with these Standards, including the warranty provisions of Section 6.2. Such permit security shall be kept in effect for the term of the permit, any extension thereto, and for any warranty periods.
- (b) Such permit security may be allowed to be used for work done by Permittee under any permits issued pursuant to these Standards, provided that the Permit Administrator may require the amount of any such permit security to be increased to provide protection to the City for the anticipated amount of all work to be done by the Permittee.
- (c) Return of Permit Security. Upon completion of all of the work covered under all applicable permits and the expiration of any applicable warranty period, the permit security will be returned to the Permittee within thirty (30) days after a written request from the Permittee.



3. PERMITS TO PERFORM EXCAVATION.

3.1 MAKING AN EXCAVATION IN THE RIGHT OF WAY WITHOUT A PERMIT.

No person shall make an Excavation in the Right-of-Way without a permit except as may be permitted by these Standards, the City Code, or by law. Any Person doing so will be subject to appropriate penalties and/or fees as provided for in these Standards, the City Code, or by law and must obtain a permit as soon as possible. Also, any such Person making any such unpermitted Excavation may be required to remove any items placed in the Right-of-Way and to restore the Right-of-Way to its original condition before such Excavation was done or to pay all costs and expenses to have this done. Furthermore, the failure of a person to have a valid permit to make an Excavation shall not relieve such person from complying with all the requirements of these Standards as to any such Excavation, including, but not limited to all obligations to restore, repair, and replace the Right-of-Way to its original condition and all warranties for such work.

3.2 ACTION ON APPLICATIONS FOR PERMITS TO EXCAVATE.

- (a) The Applicant shall submit a properly completed application to the Development Assistance Center, together with the required Certificate of Insurance, for processing.
- (b) The Development Assistance Center will forward the application to the Engineering Division, which shall approve, conditionally approve, or deny the application.
- (c) If the application is approved or conditionally approved, the application will be forwarded to the Development Assistance Center for processing and issuance of a permit to be signed by the Permit Administrator.
- (d) If the application is denied, the Division shall advise the Applicant in a written, electronic, or facsimile communication of the basis for denial.
- (e) It is anticipated that the duration of the process will take ten (10) business days.



3.3 TERMS AND LIMITATIONS.

The permit shall specify the location, extent, and method of the Excavation, the start date and duration of the Excavation, the Permittee to whom the permit is issued, and any conditions placed on the permit.

3.4 EXPIRATION OF PERMIT.

Normal duration of a permit is thirty (30) days. Additional time will be considered upon request. If the Excavation, including restoration, has not been completed within the time specified in the permit, the Transportation Division may issue a "Stop Work Order," and/or withhold future permits or cause such work to be completed by other contractors at the Permittee's sole expense; provided, however, that the Transportation Division may issue extensions to the start date, or time of completion, or both, upon written request from the Permittee stating the reasons for the extension.

3.5 NON-TRANSFERABILITY OF PERMITS.

Permits are not transferable.

3.6 EMERGENCY EXCAVATION.

Nothing contained in these Standards shall be construed to prevent any Person from taking any action necessary for the preservation of life or property when such necessity arises anytime when the Division is closed (Section 30-60, Code of the City of Roanoke (1979), as amended). In the event that any Person takes any action to excavate or cause to be excavated the Public Right of Way pursuant to this Section; such Person shall apply for an emergency permit within four hours after the Division's offices are first opened. The Applicant for an emergency permit shall submit a written statement of the basis of the emergency action and describe the Excavation performed and any work remaining to be performed. All aspects of these Standards shall apply.

3.7 LIABILITY OF PERMITTEE.

Each Permittee is wholly responsible for the quality of the Excavation performed in the Public Right of Way and is liable for all consequences of any such Excavation and any Facilities installed in the Public Right of Way. Permittee is responsible for any acts or omissions of



Permittee's employees, agents, or subcontractors. Permittee agrees and binds itself to indemnify, keep and hold the City, its officers, agents, and employees (hereafter collectively referred to in this paragraph as City) free and harmless from any and all claims, causes of action, damages or any liability, including reasonable attorney's fees and costs, on account of any injury or damage of any type to any persons or property (including City property) growing out of, or directly or indirectly resulting from, any act or omission of Permittee or Permittee's employees, agents, or subcontractors, including but not limited to: (a) Permittee's use of the public ways or other areas of the City; (b) the acquisition, construction, reconstruction, erection, installation, operation, maintenance, repair or extension of Permittee's facilities within the Public Right of Way; (c) the failure, refusal or neglect of Permittee to perform any duty imposed upon or assumed by Permittee by or under its permit. The issuance of any permit, inspection, repair, or suggestion, approval or acquiescence of any person affiliated with the Division shall not excuse the Permittee from such responsibility or liability.

3.8 PERMIT TO BE AVAILABLE AT EXCAVATION SITE.

The permit or a photo duplicate or such other document approved by the Permit Administrator shall be available for review at the site of the Excavation for the duration of the Excavation and shall be shown, upon request, to any police officer or any other employee of a City agency or department with jurisdictional responsibility over activities in the Public Right of Way. Failure to have a valid copy of any required permits on-site may cause a "Stop Work Order" to be issued. All additional costs incurred, as result of the issuance of a "Stop Work Order," shall be the Permittee's responsibility.

3.9 FEES AND DEPOSITS.

Permittee shall remit to the City the applicable fees and deposits as required by the applicable sections of the Roanoke City Code and as adopted by City Council and set out in the Fee Compendium, and these Standards. Contact the Development Assistance Center for current permit fee(s) and deposit information.



3.10 FAST TRACK MAINTENANCE PERMITS.

Fast-track maintenance permits are pre-approved permit numbers that allow a public utility with Facilities in the Right of Way to submit permit applications via e-mail. Only emergency work or minor routine repairs shall be permitted by this method.

If requested in writing, the Transportation Division will issue a pre-approved block of permit numbers to each Applicant. No Applicant will be issued more than one block of numbers at a time. The Transportation Division will determine the total number of permits per block. No entity shall have more than two (2) active blocks of permit numbers open at any given time. A third block of numbers will not be issued until the entity has used all of the numbers in the first block. Each entity must designate a contact person responsible for the security and issuance of pre-approved fast-track permit numbers. The participating entities will be invoiced monthly for each block of permit numbers issued the previous month. Payment must be remitted promptly within thirty (30) days of receiving the invoice.

3.11 FAST TRACK DEVELOPMENT PERMITS.

Fast-track development permits are pre-approved permits that allow the property owner of record (as listed in the Clerk's Office of the Circuit Court where the property is located) or Building Permit Holder to obtain a permit based on the approval of a Development Plan by the City of Roanoke Department of Planning, Building and Development, which Department may issue such permit. Each Applicant must show proof of insurance coverage required in Section 2.2 and must provide a permit security required in Section 2.3 in order to receive a permit by this method. Only the scope of work detailed in the approved Development Plan shall be performed under this permit. If field conditions warrant a change in the work, the proposed change must be approved by the Department of Planning, Building and Development before work can proceed. Work performed by or on behalf of Public Utilities when modifying or extending their Facilities to the point of service connection shall not be permitted by this method. A 30-, 60-, or 90- day permit duration may be allowed. Any permit duration longer than 90-days must be requested in writing prior to application for a Fast-Track Development Permit. The Development Review Coordinator of such Department will review such request. All work required by a Fast-Track Development



Permit issued pursuant to this Section must be completed and approved by the Department of Planning, Building and Development before any Certificate of Occupancy will be issued.

4. EXCAVATIONS.

4.1 NOTICES.

Any Permittee who makes an Excavation in the Public Right of Way shall provide notice, except in an emergency, as follows:

- (a) At least one week prior to commencement of work requiring lane closures, notify Traffic Engineering.
- (b) At least forty-eight (48) hours prior to the commencement of work, the Permittee shall notify the Inspector's Office by faxing or delivering a completed Work Location Sheet included in these Standards as Attachment 4. Failure to notify within the prescribed time may result in the issuance of a "Stop Work Order" by the Transportation Division. All additional costs incurred, as a result of the issuance of a "Stop Work Order," shall be the Permittee's responsibility.
- (c) Before commencement of construction, the Permittee shall post and maintain Excavation project signs at the site of the Excavation that bear the Permittee's name and a 24-hour telephone number. Such Excavation project signs shall provide minimum 3" lettering. As an alternative, traffic control devices may be stenciled with 3" lettering to meet this requirement.
- (d) Notice for Emergency Excavation. The Permittee or Applicant shall notify, as soon as possible, the Division, or if after normal business hours, the Police non-emergency number and advise of the Emergency Excavation and any potential impacts on traffic flow or traffic or pedestrian safety.



4.2 NOTICE FOR MARKING OF SUBSURFACE FACILITIES.

In accordance with State law, Virginia Code Section 56-265.14, et seq., any Person excavating in the Public Right of Way shall comply with the requirements of the Virginia “Underground Utility Damage Prevention Act” regarding notification of Excavation and marking of subsurface Facilities.

4.3 LIMITS UPON EXCAVATION IN THE PUBLIC RIGHT OF WAY.

- (a) Scope. A Permittee shall not make, cause, or permit to be made, any Excavation in the Public Right of Way outside the boundaries, times, and description set forth in the permit or the plans filed.
- (b) Single Excavation maximum of 500 feet. No single open Excavation site shall be longer than 500 feet in length at any time.
- (c) No work will be permitted (except for emergencies) on certain streets during special City events, or other events so designated by Traffic Engineering.

4.4 REGULATIONS CONCERNING EXCAVATION SITES.

Each Owner and Permittee shall be subject to requirements for Excavation sites that are set forth herein and shall include, but not be limited to, the following measures:

- (a) Protection of the Excavation. Whenever possible, Excavations should be backfilled immediately following the work. Each Permittee shall cover an open Excavation with properly designed and load rated steel plates ramped to the elevation of the contiguous street, pavement, or other Public Right of Way, or otherwise protected in accordance with guidelines prescribed by the Division. Steel plates must be secured so that they do not slip, must provide a skid resistant travel surface (with the use of an industrial coating or other approved method), and must not deflect from traffic loads. Steel plates shall extend at least one foot on all sides of the Excavation and must be firmly anchored with pins.
- (b) Housekeeping and removal of excavated material. Each Permittee shall keep the area surrounding the Excavation clean and free of loose dirt or other debris in a manner deemed satisfactory to the Division. In addition, the Permittee shall remove all excavated material from the site of the Excavation no later than the end of each workday. All excavated



material shall be disposed of at a fill site pursuant to an erosion and sediment control plan approved by the City of Roanoke if such site is located in the City. If the site is outside the City, the plan shall be approved by the jurisdiction where the site is located.

- (c) Hazardous materials or wastes. Each Permittee shall comply with applicable federal, state, and local laws and regulations regarding hazardous materials and/or wastes as such laws and regulations may apply to the Permittee's activities.
- (d) Traffic Control. All traffic control devices and provisions around construction sites shall be installed and maintained in accordance with the latest editions of the "Manual for Uniform Traffic Control Devices" (MUTCD) and the "Virginia Work Area Protection Manual," subject to modification for specific locations by the Transportation Division. The Permittee is responsible for furnishing, installing, and maintaining all signs and their appurtenances, 24-hours a day, seven (7) days a week, and for removal of such signs as required by these Standards.
- (e) Erosion and Sediment Control. Erosion and sediment control around work sites shall be in accordance with the "Virginia State Erosion & Sediment Control Handbook" (current edition) and the Roanoke City Code. Inlet protection should be provided at curb inlets and yard drains. Under no circumstances shall material be allowed to enter the storm drain system. Excess material/sediment shall be allowed to dry and then removed by vacuum sweeper or shoveling and hauled away. Street washing shall be allowed only after sediment is removed in this manner. Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect adjacent property.
- (f) Job-site parking. No job-site parking on sidewalks or landscaping is permitted. Parked vehicles and equipment shall not restrict private property access nor hinder sight distances for traffic.
- (g) Pedestrian Access. The Permittee must provide pedestrian access to abutting properties or the Public Right of Way in a safe manner. Protective barricades, fencing, handrails and bridges, together with warning guidance devices and signs must be utilized so that the passageway for pedestrians is safe and well defined. Installation of a fixed pedestrian walkway of the fence-and-canopy type to protect and control pedestrians is also required



where hazardous work conditions exist overhead. The walk area shall comply with OSHA standards, local Building Codes, Americans With Disabilities Act Guidelines, and any additional requirements set forth by the Division.

- 1) Walkways in construction areas shall be maintained at least four (4) feet in width and free from abrupt changes in grade. (Maximum allowable grade is 1" rise in 12" of run.) Obstructions within the walkway shall be illuminated during hours of darkness. Minimum vertical clearance to any obstruction within the walkway shall be at least seven feet.
 - 2) Where sidewalks are closed or damaged by construction, an alternate walkway shall be provided pursuant to a Traffic Control Plan approved by Traffic Engineering. Otherwise, at no time shall pedestrians be diverted into a portion of the street, including the parking lane, used for vehicular traffic. This includes and prohibits the closure of a sidewalk mid-block, unless a properly signed and marked temporary (mid-block) crosswalk has been approved by Traffic Engineering or as may otherwise be provided by the approved Traffic Control Plan.
 - 3) At locations where alternate walkways cannot be provided, appropriate signs and barricades must be installed at the nearest crosswalk or intersection to divert pedestrians across the street. The Permittee must submit a special plan on the pedestrian route and signage for this type of closure.
- (h) Temporary Asphalt Repair: In a street with lane striping, a temporary asphalt repair (i.e., cold patch or other approved material) must be applied over a backfilled Excavation before the lane containing the Excavation is opened to traffic. The patch must be a minimum of 2 inches thick, level with the surrounding pavement, and of sufficient quality to carry the traffic loading of the street without sinking, displacement or breaking apart. It shall be the responsibility of the Permittee to maintain the temporary repair in a condition satisfactory to the Inspector until the permanent repair is in place.



4.5 WORK OUTSIDE THE PAVEMENT.

- (a) All work areas outside the pavement shall be restored to their original condition after work completion. All pits/trenches remaining open overnight shall be barricaded or fenced on all sides to ensure pedestrian and motorist safety.
- (b) When the work area is interrupted in excess of one week, temporary repairs (select fill to grade) must be made. No work area outside of the pavement will be left in a disturbed condition over ten (10) days. When the Permittee is notified of a failure in the work area (i.e. cave-in, work zone protection altered), the Permittee must respond and repair the work area within 24 hours.
- (c) The City reserves the right to make or have made any and all required repairs, and recover all associated costs from the Permittee, where necessitated by emergency conditions.

4.6 QUALITY ASSURANCE/QUALITY CONTROL INSPECTION.

The inspection process is the primary method by which the Division seeks to protect the City's investment in its Public Right of Way infrastructure. A uniform and responsive inspection process will ensure that the work is completed in accordance with the standards for reconstruction and site restoration specified and referenced herein. The Division's inspection effort will also ensure that the City's infrastructure attains its maximum useful life and utility restoration callbacks are minimized.

- (a) The Division's quality assurance efforts complement the Permittee's quality control efforts. Quality assurance begins with the site plan review process for Public and Municipal Utility projects. City Inspectors are responsible for the inspection of all permitted work within the Public Right of Way. The inspector serves as liaison with Permittee to advise on construction standards and practices and to coordinate activities between the City and other entities and to advise on the extent of restoration.
- (b) Quality control is the responsibility of the Permittee. The Permittee is expected to be familiar with the applicable standards referenced herein and to employ qualified and licensed personnel and/or subcontractors that will utilize these standards in the restoration of the Public Right of Way. Permittees and their subcontractors who fail to comply with these standards risk denial of permits for performing future work in the Public Right of Way.



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- (c) Inspection services will be provided by the Division as necessary, and upon a request by the Permittee or its subcontractors. The Permittee must notify the Inspector at least forty-eight (48) hours before beginning the work.
 - (d) The City's Inspector will be focused on restoration of the Public Right of Way, backfill, compaction, hazard protection, repaving, and traffic control. Some inspections will be ongoing throughout the duration of a Permit, whereas other inspections will be made only after completion of the work. Factors that will be considered for ongoing inspections include location of work, duration of work, size of area being disturbed or other issues as determined by the Division.

4.7 DAMAGE TO ITEMS IN THE RIGHT OF WAY OR TO THE RIGHT OF WAY.

- (a) For all Excavations, the Permittee shall thoroughly investigate the location of all known public, municipal, or any other utilities or other Facilities paralleling or crossing the proposed path of the proposed Facilities or construction area.
- (b) The Permittee shall be responsible for all damages of any type caused to items in the Right of Way or to the Right of Way as a result of performing the work covered under the Permit or in the Right of Way, unless otherwise provided by law or in these Standards. All damages shall be repaired in accordance with Section 5 of these Standards and shall be subject to the warranty period described in Section 6.2 of these Standards.

5. RESTORATION STANDARDS FOR THE PUBLIC RIGHT OF WAY.

Each Permittee that excavates or is responsible for an Excavation in the Public Right of Way shall be responsible for maintaining, repairing, or restoring the site of the Excavation equal to or better than its former condition (Section 30–48, Code of the City of Roanoke (1979), as amended). The following standards will serve as guidelines for work in the City of Roanoke:

5.1 ASPHALT PAVEMENT.

Pavement restoration shall match the existing street cross section and pavement type unless otherwise provided for in a Quality Control Plan approved by the Transportation Division. The limits of restoration required to any pavement type shall be dependent on the size of the Excavation, and whether it is listed on the two-year paving program candidate list. If the



Excavation is located on a street listed on the two-year paving program candidate list, final restoration (mill and re-pave) will not be required. Any variance of the limits of restoration required is at the discretion of the Permit Administrator. In all cases the work site must be cleaned up each day.

(a) **Backfilling and Compaction:**

- 1) Backfill material shall be VDOT No. 21A Aggregate, placed in loose lifts not exceeding 6", and compacted to at least 95% maximum dry density within 2 percentage points of optimum moisture (VTM-1) with the use of mechanical tampers or vibratory rollers. Water compaction is not permitted. Local material classified as Type I select material may be used as backfill upon prior approval by the Transportation Division. Material classification shall be performed on the actual soil to verify that soil meets VDOT specifications for Type I select material by a qualified testing laboratory and test results shall be certified by a Virginia Registered Professional Engineer. Density requirements are the same as above, however, moisture content for soils may be within 20% of optimum.
- 2) Density and moisture testing is required on both aggregate and soil backfill. All testing shall be performed and certified by a geotechnical engineer or a VDOT Certified Technician. Results shall be provided to the Inspector within 24-hours of testing completion. The cost of all testing is the sole responsibility of the Permittee. The Permittee shall submit written test results to the Inspector's Office.
- 3) Field density testing methods shall be approved by the Transportation Division prior to performing any testing. A Permittee that performs more than ten (10) Excavations a month under these Standards may submit a written quality control plan to reduce the number of required field density tests. The quality control plan must include the exclusive use of a VDOT-certified aggregate. The quality control plan shall be submitted to the Transportation Division for review and approval.



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- 4) Flowable fill may be used as an alternate to Aggregate or Select material. Flowable fill shall meet the requirements of VDOT special provision for flowable backfill. The material must be plant-certified to provide a 28-day compressive strength between 30 and 200 psi. A certificate of mix design must be submitted to the Inspector prior to placing the material in the trench. A minimum of four 6 x 12 test cylinders shall be taken every 50 CY of placement. Cylinders shall be tested by a qualified testing laboratory for 28-day strength. Results shall be provided to the Inspector's Office within 24 hours of testing completion. The cost of all testing is the responsibility of the Permittee. If the report indicates the compressive strengths are not between 30 and 200 psi, the Permittee will be responsible for removing and replacing the backfill with acceptable backfill and completing the restoration of the street at no cost to the City.

(b) **Initial Pavement Repair:**

- 1) The following repair is required, unless another method has been approved as part of an Applicant's Quality Control Plan. After backfill to subgrade is complete, saw cut pavement surface at least one (1) foot beyond all sides of the excavated trench.
- 2) Remove pavement surface, exposing a minimum of 1 foot bench on top of the base.
- 3) Compact aggregate base in maximum 6" lifts to 95% maximum dry density. New hot mix asphalt will be placed in lifts (3" maximum) and each lift shall be compacted using a vibratory plate compactor or a static roller. Asphalt depths shall be determined by the presence of lane striping on the street. For streets with lane striping, the minimum depth shall be 8 inches and consist of two 3 inch lifts of asphalt base mix and one 2 inch lift of asphalt surface mix. For streets without lane striping, the minimum depth shall be 4 inches and consist of one 2-1/2" lift of asphalt base mix and one 1-1/2" lift of asphalt surface mix. When it is necessary to use cold patch in an opening due to the unavailability of hot mix material, the cold patch will be applied in one lift, approximately 2



inches thick. The restoration will not be considered complete until the cold patch is removed and replaced with hot mix asphalt.

- 4) Patches will be approved based on their general appearance as well as their "rideability." Rideability is defined as a leveling tolerance to within one-quarter inch (1/4") at any point across the patch as it relates to the surrounding street surface.
- 5) The repair shall be rectangular and saw cut in straight, uniform lines that are aligned with the street centerline. When edges of pavement have been undermined, pavement shall be removed to a neat line 12" beyond the undermined area. Any initial pavement repair with an area greater than 40 square feet may be non-rectangular, however, the repair shall be saw cut in straight, uniform lines. Any other deviation on patch shape must be approved by the Inspector prior to the repair being made.

(c) **Final Restoration:**

- 1) In a street with lane striping, any initial pavement repair with an area greater than 100 square feet which transversely covers more than one foot (1') of a lane shall require the entire lane width to be milled and repaved, for a distance of 10 feet from the edge of the initial pavement repair in both directions. For any initial pavement repair with an area equal to or less than 100 square feet, milling and repaving are not required.
- 2) In a street without lane striping, milling and repaving are not required.
- 3) Milling depth shall be a minimum one and one-half inches (1 ½"). Repaving shall exactly match milling depth. Any manhole adjustments shall be the responsibility of the Permittee. Positive drainage and existing flow lines must be maintained.
- 4) The limit of final restoration may be adjusted by the Permit Administrator.



5.2 CONCRETE PAVEMENT.

- (a) Any Excavation in a concrete pavement shall require a slab replacement from the nearest transverse joint longitudinally and the entire width of the lane. Slab replacement in an alley shall extend the entire pavement width.
- (b) Once the compacted backfill has been placed, 1" dowel bars, a minimum of 15" long, must be installed 7.5" into the existing concrete slabs. The bars shall be placed on 12" centers and grouted with an approved adhesive or grout. Welded wire fabric may be required. A "high early" strength (5,000-psi minimum strength within 7 days) concrete mix is required for concrete pavements and valley gutters. Place, finish, and protect new concrete with adequate protection during its curing period. Concrete is required to "set" within 4 hours of placement. Before the pavement is opened to traffic, joints must be cleaned and properly sealed.

5.3 DECORATIVE PAVEMENT.

If decorative pavement is disturbed, the Permittee shall be responsible for repairing the pavement to match the original design in color and texture. The extent of decorative pavement restoration shall be determined by the Inspector.

5.4 TRANSPORTATION.

- (a) **Signalized Intersections:** The Permittee, or the Permittee's subcontractor, must not cut into the pavement of a signalized intersection without contacting Miss Utility of Virginia in accordance with Virginia Code Sections 56-265.14, et. seq. Traffic Engineering will attempt to locate and mark buried loop detection devices. Any Permittee, or Permittee's subcontractor, that damages a loop detector marked within Miss Utility Specifications must replace, repair, or pay for the replacement of the damaged loop detector within three (3) business days of such damage.
- (b) **Pavement Markings:** Lane striping or other painted and affixed delineators, which are removed or damaged, must be replaced by the Permittee before restoration will be considered complete. Replace markings using like materials, or as approved by Traffic Engineering.



5.5 SIDEWALKS.

Damaged sidewalks shall be removed and replaced in full sections (nearest joint). Replacement sidewalk material shall match the existing sidewalk to the extent practicable. All concrete edges that are to be removed must be saw cut and formed from construction joint to joint. A section's size will be determined by the adjacent sections or by the Inspector.

- (a) Any sections of sidewalk that have been undermined must be cut out and replaced. Suitable backfill must be installed and compacted prior to replacement.
- (b) The Permittee, or the Permittee's subcontractors, must not park any vehicles and/or equipment on City sidewalks. Any damage observed after the work has been completed and that is attributable to the Excavation or performing the Excavation will be the Permittee's responsibility. The Permittee will be required to make the necessary repairs for any such damage.

5.6 CURB RAMPS FOR PEOPLE WITH MOBILITY IMPAIRMENTS.

Any work which requires the disturbance of the curb, and/or sidewalk, touching the back of the curb located within a street intersection return, must be removed and replaced with a curb ramp, at the Permittee's sole expense. The ramp shall be constructed with detectable warning in accordance with current (Virginia Department of Transportation and City of Roanoke) standards and specifications. When the work disturbs an existing curb ramp, the ramp will be removed and replaced in its entirety and installed in accordance with current (Virginia Department of Transportation and City of Roanoke) standards and specifications.

5.7 CONCRETE DRIVEWAY ENTRANCES.

Driveway entrances shall not be "patched" following any work on or around such entrances. The entire apron shall be replaced to the nearest expansion joint. Entrances shall be constructed and repaired to current City standards.

5.8 CURB AND GUTTER.

When curb and gutter are disturbed or damaged, they must be replaced in full ten-foot (10') sections and match existing curb and gutter materials to the extent practicable. Match existing



curb elevations and ensure a constant grade to provide positive drainage. Curb and gutter must be installed over 6" of compacted crush stone base that extends 12" past the back of curb. Expansion material must be used at all joints. If the work includes removal of a section which was finished with a control joint, the Permittee must saw cut the joint prior to removing the existing section, or as directed by the Inspector.

5.9 HORIZONTAL DIRECTIONAL DRILLING.

Horizontal Directional Drilling (HDD) may be used within the Public Right of Way if pre-approved by the Division. The following conditions will apply to HDD:

- (a) Horizontal Directional Drilling equipment operators must be trained, preferably by the equipment manufacturer, in the safe and proper operation of the equipment. Written proof of proper training shall be furnished to the City's Inspector upon request. Failure to furnish training documentation could result in a Stop Work Order being issued. All additional costs incurred by the Permittee, as result of the issuance of a "Stop Work Order," shall be the Permittee's responsibility.
- (b) For all underground utility construction, the Permittee shall thoroughly investigate the location of all known public, municipal, or any other utilities or other Facilities paralleling or crossing the proposed path of the proposed Facilities or construction area.
- (c) All Public Utility Facilities which are to be located underground shall, after the effective date of these Standards, be installed to a minimum depth of twenty-four (24) inches below the surface of the Public Right of Way.
- (d) The Permittee is encouraged to use observation pits (pot-holes) to verify the location of existing underground utility facilities.
- (e) HDD equipment shall have directional control of the boring tool and have an electronic boring tool location detection system. During operation the HDD equipment, the operator shall be able to determine the location of the boring tool both horizontally and vertically.
- (f) The Permittee or the Permittee's subcontractor must be in direct charge and control of the HDD operation at all times.



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- (g) The Inspector shall be notified 48 hours in advance of starting HDD operations. HDD operations must be performed in the presence of an Inspector unless otherwise directed by the Division. The Work Location Sheet included as Attachment 4 shall be used for such notice.
 - (h) Potholes in the pavement surface shall be repaired in accordance with the requirements for initial pavement repair. Should the patch dimensions exceed 12 inches by 12 inches, final restoration will be required. If more than four (4) potholes are made in the pavement surface for any single drilling location, final restoration will be required.

5.10 MONUMENTS.

Any monument or property corner that is disturbed shall be reset by a licensed land surveyor at the sole cost of the Permittee performing the Work. Documentation from the surveyor shall be provided to the Division.

5.11 LANDSCAPING.

- (a) In grass areas, place topsoil to a minimum depth of 4 inches. Whenever possible, segregate topsoil during Excavation and re-use. Rake areas to remove all root clumps, stones, and debris 1 inch or greater in size. True up all depressions and edges. Scarify subsoil to a depth of 2 inches where topsoil is to be placed. Establish a smooth grade ready to receive seed and sod. Finish grade must be acceptable to the Inspector. Sow seed at rate of 6 lbs. per 1,000 square feet using a seeding machine. Do not sow under windy conditions. Distribute seed evenly. Do not lap seed into shrub and groundcover beds. Rake seed lightly into top 1/8 inch of soil, roll lightly, apply mulch and water with fine spray. Watering of all planted material is the responsibility of the Permittee. Seedbed shall be kept moist for 2 – 3 weeks to allow for germination. In the performance of this work Permittee shall be responsible to keep sidewalks, roads, and other paving clean of debris, mud and dust at all times.
- (b) The seed mix used shall be selected based on the specific use of the area being restored. If the use cannot be determined, the Applicant shall consult the City's Landscape Coordinator.



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- (i) High Quality/High Visibility Area – A "Blue Tag" certified seed blend consisting of 3-4 varieties of turf-type tall fescue cultivars that are currently on Virginia Tech's annual "Turfgrass Variety Recommendations" listing as approved by the Virginia Crop Improvement Association (VCIA) such as WolfPack, Tarheel, Tomahawk, Apache, etc.
 - (ii) Standard Quality/Standard Visibility Area – A "Blue Tag" certified seed of the tall fescue cultivar "Southeast".
 - (iii) Low Maintenance Right of Way and Slope Areas – A "Blue Tag" certified seed hard fescue that is glyphosate (Round-Up) tolerant.
- (c) When Excavation conflicts with a tree or its root system, Permittee shall be responsible for coordinating work with the City's Urban Forester.

5.12 BACKFILLING OUTSIDE THE PAVEMENT.

Soil excavated from the site or other appropriate material may be used as backfill in areas outside the pavement provided it is not deemed to be unsuitable by the Inspector. Unsuitable material must be removed from the site and replaced with material approved for use as set forth in Section 5.1 or local material approved by the Inspector. Compaction methods for local material used outside the pavement must be approved by the Inspector.

6.0 VIOLATIONS.

The Transportation Division has the authority to enforce the regulations and standards specified in the Right of Way Excavation & Restoration Standards to prevent violations thereof. Upon the Transportation Division's determination that a Person or Permittee has violated any provision of these Standards, the standard details and specifications, or notices of the Division; any term, condition, or limitation of any permit; or is subject to any outstanding fees, deposits, or other charges, the Transportation Division shall serve notice on such Person or Permittee to promptly abate the violation. Any Person or Permittee whom the Transportation Division determines to be responsible for violating the provisions contained in these Standards may be subject to any or all of the enforcement mechanisms as hereinafter specified.



6.1 STOP WORK ORDER, PERMIT MODIFICATION, AND PERMIT REVOCATION.

- (a) When the Transportation Division has determined that a Person or Permittee has violated the provisions of these Standards or that an Excavation poses a hazardous situation or constitutes a public nuisance, public emergency, or other threat to the public health, safety, or welfare, the Transportation Division is authorized to issue a Stop Work Order, to impose new conditions upon a permit, or to suspend or revoke a permit by notifying the Person or Permittee of such action in a written, electronic, or facsimile communication.
- (b) The Transportation Division's determination as to any of the above actions shall be final, unless such Permittee or subcontractor objects in writing to such action within five (5) calendar days after receipt of notice of such action. After receipt of such notice of objection, the Director of Public Works will meet with or receive evidence from such objecting Permittee or subcontractor and make a final decision as to the action taken by the Transportation Division. In addition, the Permittee or subcontractor may be subject to those enforcement actions set forth in these Standards, including Sections 6.3, 6.4, and 7.0, the City Code, or by law.

6.2 SUBSURFACE, CURBING, SIDEWALK, OR PAVEMENT FAILURES - WARRANTY.

In the event that subsurface material, curbing, sidewalk, or pavement over or immediately adjacent to any Excavation should become depressed, broken, or fail in any way within one (1) year after the Excavation has been completed and designated as such by the City, and that is attributable to the Excavation or performing the Excavation, the Permittee and the Permittee's subcontractor who did such work in the Right of Way shall make the necessary repairs as directed by the Division. The Transportation Division shall notify the Permittee or subcontractor of the condition, location, and the required remedy, and such Permittee or subcontractor shall repair or restore, or cause to be repaired or restored, such condition to the satisfaction of the Transportation Division within thirty (30) calendar days of the notification. If a failure poses a hazardous situation, the Permittee or subcontractor shall restore such condition within seventy-two (72) hours of the notification. The Transportation Division may extend the time for such party to repair or to restore the affected Public Right of Way. All warranty repairs shall comply with Section 5.0 of these Standards. All repairs to areas damaged as a result of performing the work



covered under the permit shall be covered by the warranty. All such repair or restoration work shall be subject to an additional warranty period of one (1) year from the date of completion of such work. Failure of any such work will be repaired or restored as set forth above or as otherwise provided in these Standards.

6.3 REPAIR BY THE DIVISION.

- (a) In the event that any Permittee or subcontractor fails, neglects, or refuses to repair or restore any condition pursuant to the Transportation Division's notice as set forth in Section 6.2 of these Standards, the Transportation Division may repair or restore, or cause to be repaired or restored, such condition in such manner as the Transportation Division deems expedient and appropriate. The Permittee and/or subcontractor shall compensate the Division for any costs associated with administration, construction, consultants, equipment, inspection, notification, remediation, repair, restoration, or any other actual costs incurred by the City that were made necessary by reason of the repair or restoration undertaken by the Division. The Transportation Division's determination as to the cost of the repair or restoration performed shall be final, unless such Permittee or subcontractor objects in writing to such cost within 10 calendar days after receipt of notice of the cost. After receipt of such notice of objection, the Director of Public Works will meet with or receive evidence from such objecting Permittee or subcontractor and make a final decision as to the cost for such work. In addition, the Permittee or subcontractor may be subject to those enforcement actions set forth in these Standards, including Sections 6.4 and 7.0, the City Code, or by law.
- (b) Subject to the limitations set forth in Sections 6.2 and 7.0 of these Standards, repair or restoration by the Division in accordance with this Section shall not relieve the Person(s), Permittee(s) or subcontractor doing the work from liability for future pavement or other failures at the site of the repair or restoration.

6.4 PENALTIES AND FEES.

- (a) Violations of these Standards constitute a violation of Sections 30-48 and 30-49 of the Code of the City of Roanoke (1979), as amended. Pursuant to Section 30-1 of the City Code, such violation would be a Class 3 misdemeanor. Each day on which a violation occurs or continues shall be deemed a separate and distinct violation.



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- (b) Any Person or Permittee who fails to comply with these Standards will not be allowed to work or to continue to work in the Right of Way and will be subject to such requirements as may be imposed by the Division to ensure compliance with these Standards. Such requirements may include, but are not limited to, suspension of other permits held by the Person or Permittee, Stop Work Orders, payment by the Person or Permittee of any costs incurred by the City to correct such failure to comply with these Standards, and denial of permit requests until violations are corrected and the Person or Permittee can establish that they will properly comply with these Standards for all permits they might request.
 - (c) Permit(s) reinstatement and/or issuance will be done once any violations of these Standards have ended and been corrected and once any requirements imposed by the Division have been completed.
 - (d) If work is started in the Right of Way without a permit, the fee for obtaining a permit for such work will be an increased fee as set forth in the City's Fee Compendium.

7.0 EMERGENCY REMEDIATION BY THE DIVISION.

- (a) If, in the judgment of the Transportation Division, the site of an Excavation is considered hazardous or if it constitutes a public nuisance, public emergency, or other imminent threat to the public health, safety, or welfare that requires immediate action, the Transportation Division shall order the condition remedied by a written, electronic, or facsimile communication to the Permittee or subcontractor responsible for doing the work.
- (b) If the Person, Permittee or subcontractor doing the work is inaccessible or fails, neglects, or refuses to take immediate action to remedy the condition as specified in such communication, the Transportation Division may remedy the condition or cause the condition to be remedied in such manner as the Transportation Division deems expedient and appropriate. The Person, Permittee and/or subcontractor doing the work shall compensate the Division for any costs associated with administration, construction, consultants, equipment, inspection, notification, remediation, repair, restoration, or any other actual costs incurred by the Division or other agencies, boards, commissions, or Divisions of the City that were made necessary by reason of the emergency remediation



undertaken by the Division. The procedures set forth in Section 6.3 of these Standards shall apply for assessment and payment of costs to this Section.

- (c) Subject to the provisions set forth in Section 6.2 of these Standards, remediation by the Division in accordance with this Section shall not relieve the Person, Permittee, and/or subcontractor doing the work from liability for future pavement or other failures at the site of the remediation, repair, or restoration.

8.0 ENVIRONMENTAL ISSUES

- (a) The Person or Permittee is responsible for pursuing and obtaining any and all environmental permits which may be required to pursue the proposed activity prior to any work beginning within the Right of Way.
- (b) In the event the Person or Permittee encounters hazardous materials, hazardous wastes, or underground storage tanks within the Right of Way in the pursuit of its activities, the Person or Permittee is responsible for ceasing all work within the site, except such activities as may be required by law to secure the site, and notifying the Transportation Division, the City's Office of Environmental Management, and other responsible groups, i.e. local fire department, Virginia Department of Environmental Quality, etc.
- (c) If no release, as defined by the United States Environmental Protection Agency (EPA), has occurred, the Person or Permittee will be advised if it may continue with its activities or if such activities must be terminated. If the Person or Permittee is advised it may continue with its activities, such Person or Permittee may elect to proceed with its activities or terminate its activities. If an election is made to proceed, the Person or Permittee is responsible for coordinating and completing all remedial/removal activities required in order to properly complete such activities within the Right of Way. If an election is made to terminate its activities, the Person or Permittee will be responsible for securing the site, cooperating with the City to turn the site over to the City and/or responsible party who may proceed with appropriate remedial and/or removal activities, and for pavement restoration, or its costs, as such pavement restoration may be directed by the City.
- (d) If a release, as defined by the EPA, has occurred, the Person or Permittee is responsible for any such release arising out of such Person's or Permittee's activities or actions in the



Right of Way and for any required remedial/removal activities that may be required as a result of such release.

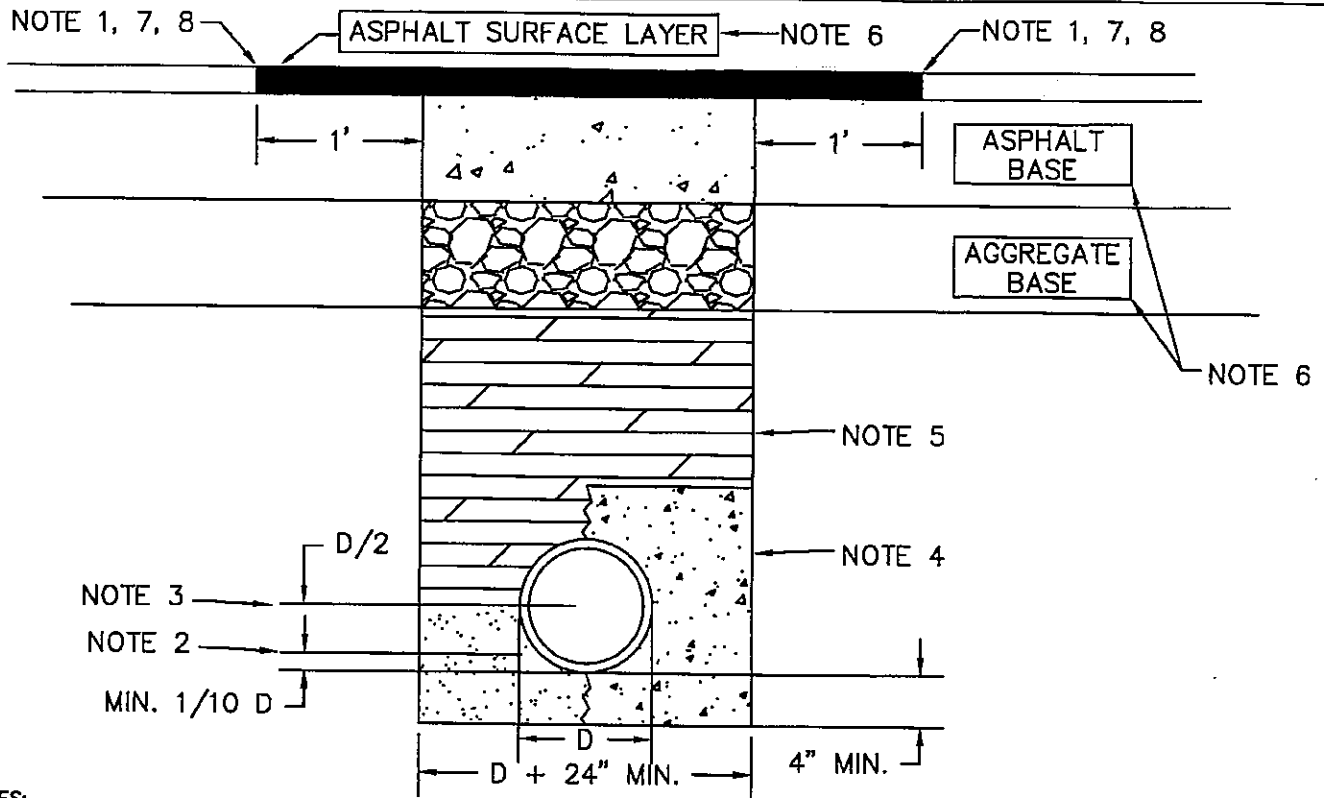
- (e) In the event the Person or Permittee encounters cultural, archaeological, or paleontological artifacts, graves, and/or rare minerals, within the Right of Way in the pursuit of its activities, the Person or Permittee shall act immediately to suspend work at the site of the discovery and notify the Division. The Person or Permittee is responsible for notifying the proper state authority, if any, charged with the responsibility for investigating and evaluating such finds. Prior to continuing with the proposed activities within the Right of Way, the Person or Permittee will meet all necessary requirements for resolving any conflicts and shall provide evidence of such compliance to the Division.

END OF STANDARDS

ATTACHMENT 1

DETAILS

UTILITY TRENCH REPAIR IN PAVEMENT



NOTES:

1. ALL PAVEMENTS SHALL BE SAW CUT WITH NEAT, UNIFORM LINES PRIOR TO EXCAVATION.
 2. PIPE BEDDING MATERIAL SHALL BE CRUSHER RUN (VDOT NO. 25 OR 26) OR OPEN GRADED AGGREGATE (VDOT NO. 57, 68, 7, OR 8). ALTERNATE MATERIAL MUST BE APPROVED BY THE CITY ENGINEER.
 3. MAXIMUM DEPTH OF PIPE BEDDING MATERIAL IF USING OPEN GRADED AGGREGATE FOR BEDDING.
 4. OPTIONAL CONCRETE ENCASEMENT FOR POWER OR COMMUNICATION CONDUIT. PROVIDE A MINIMUM OF 4" CONCRETE COVER FROM ALL SIDES OF CONDUIT.
 5. BACKFILL MATERIAL SHALL BE VDOT NO. 21A AGGREGATE, PLACED IN LOOSE LIFTS NOT EXCEEDING 6", AND COMPACTED TO AT LEAST 95% MAXIMUM DRY DENSITY WITHIN 2 PERCENTAGE POINTS OF OPTIMUM MOISTURE (VTM-1) WITH THE USE OF MECHANICAL TAMPERS OR VIBRATORY ROLLERS. WATER COMPACTION IS NOT PERMITTED. TYPE I SELECT MATERIAL MAY BE USED AS BACKFILL UPON PRIOR APPROVAL BY THE CITY ENGINEER. MATERIAL CLASSIFICATION SHALL BE PERFORMED ON THE ACTUAL SOIL TO VERIFY THAT SOIL MEETS VDOT SPECIFICATIONS FOR TYPE I SELECT MATERIAL BY A QUALIFIED TESTING LABORATORY AND TEST RESULTS SHALL BE CERTIFIED BY A VIRGINIA REGISTERED PROFESSIONAL ENGINEER. DENSITY REQUIREMENTS ARE THE SAME AS ABOVE, HOWEVER, MOISTURE CONTENT FOR SOILS MAY VARY WITHIN 20% OF OPTIMUM.
- ALL TESTING SHALL BE PERFORMED AND CERTIFIED BY A GEOTECHNICAL ENGINEER OR A VDOT-CERTIFIED TECHNICIAN. RESULTS SHALL BE PROVIDED TO THE INSPECTOR WITHIN 24 HOURS OF TESTING COMPLETION. THE COST OF ALL TESTING IS THE RESPONSIBILITY OF THE PERMITTEE. FIELD DENSITY TESTING METHODS SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO PERFORMING ANY TESTING.
6. ALL ASPHALT PAVEMENT DEPTHS SHALL BE DETERMINED BY THE PRESENCE OF LANE STRIPING ON THE STREET. FOR STREETS WITH LANE STRIPING, THE MINIMUM DEPTH SHALL BE 8" AND CONSIST OF TWO 3" LIFTS OF ASPHALT BASE MIX AND ONE 2" LIFT OF ASPHALT SURFACE MIX. FOR STREETS WITHOUT LANE STRIPING, THE MINIMUM DEPTH SHALL BE 4 INCHES AND CONSIST OF ONE 2-1/2" LIFT OF ASPHALT BASE MIX AND ONE 1-1/2" LIFT OF ASPHALT SURFACE MIX. THE ASPHALT SURFACE LAYER SHALL EXTEND OVER UNDISTURBED BASE A MINIMUM OF 12" ON ALL SIDES. ALL PAVEMENT MATERIALS SHALL MEET VDOT REQUIREMENTS FOR SURFACE MIX (SM-9.5AL, SM-9.5A, OR SM-12.5D), BASE MIX (BM-25), AND STONE AGGREGATE (21A OR 21B). PLANT CERTIFICATION FOR EACH MIX INCORPORATED INTO THE WORK SHALL BE PROVIDED TO THE INSPECTOR. WHEN MATCHING NON-STANDARD MATERIALS, THE INSPECTOR SHALL DETERMINE AN ACCEPTABLE MATERIAL.
 7. THE REPAIR SHALL BE RECTANGULAR AND SAW CUT IN STRAIGHT, UNIFORM LINES THAT ARE ALIGNED WITH THE STREET CENTERLINE. WHEN EDGES OF PAVEMENT HAVE BEEN UNDERMINED, PAVEMENT SHALL BE REMOVED TO A NEAT LINE 12" BEYOND THE UNDERMINED AREA. ANY INITIAL PAVEMENT REPAIR WITH AN AREA GREATER THAN 40 SQUARE FEET MAY BE NON-RECTANGULAR, HOWEVER, THE REPAIR SHALL BE SAW CUT IN STRAIGHT, UNIFORM LINES. ANY OTHER DEVIATION ON PATCH SHAPE MUST BE APPROVED BY THE INSPECTOR PRIOR TO THE REPAIR BEING MADE. THE FINISHED PATCH SURFACE SHALL BE WITHIN 1/4 INCH AT ANY POINT ACROSS THE PATCH AS IT RELATES TO THE SURROUNDING STREET SURFACE.
 8. A FULL COVERAGE TACK COAT IS REQUIRED ON ALL SURFACES THAT WILL CONTACT THE NEW SURFACE LAYER.

OFFICE OF THE CITY ENGINEER - ROANOKE, VIRGINIA

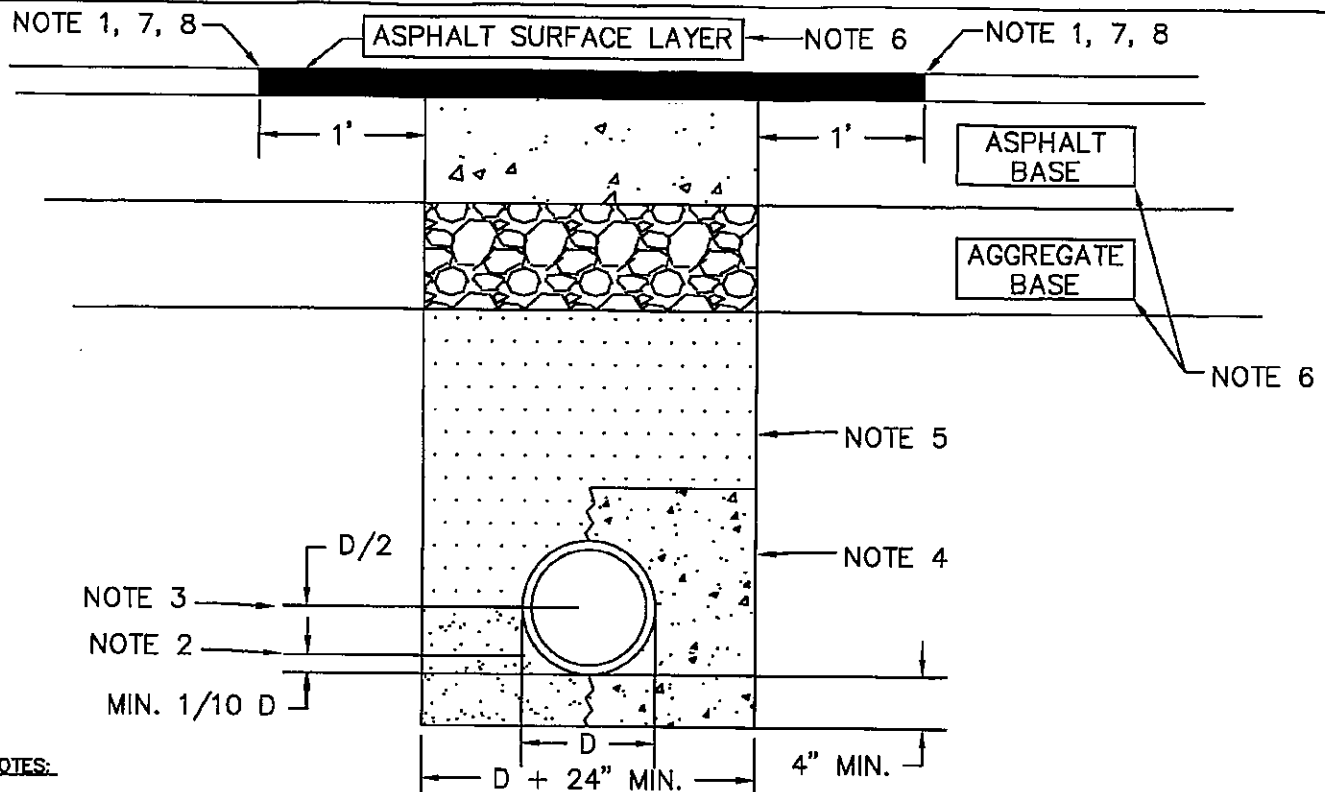
APPROVED

CITY ENGINEER

UTILITY TRENCH REPAIR IN PAVEMENT
USING VDOT NO. 21A AGGREGATE

UTR-1

DATE:



NOTES:

1. ALL PAVEMENTS SHALL BE SAW CUT WITH NEAT, UNIFORM LINES PRIOR TO EXCAVATION.
2. PIPE BEDDING MATERIAL SHALL BE CRUSHER RUN (VDOT NO. 25 OR 26) OR OPEN GRADED AGGREGATE (VDOT NO. 57, 68, 7, OR 8). ALTERNATE MATERIAL MUST BE APPROVED BY THE CITY ENGINEER.
3. MAXIMUM DEPTH OF PIPE BEDDING MATERIAL IF USING OPEN GRADED AGGREGATE FOR BEDDING.
4. OPTIONAL CONCRETE ENCASEMENT FOR POWER OR COMMUNICATION CONDUIT. PROVIDE A MINIMUM OF 4" CONCRETE COVER FROM ALL SIDES OF CONDUIT.
5. BACKFILL MATERIAL SHALL BE FLOWABLE FILL MEETING THE REQUIREMENTS OF VDOT SPECIAL PROVISION FOR FLOWABLE BACKFILL. THE MATERIAL MUST BE PLANT-CERTIFIED TO PROVIDE A 28-DAY COMPRESSIVE STRENGTH BETWEEN 30 AND 200 PSI. A CERTIFICATE OF MIX DESIGN MUST BE SUBMITTED TO THE INSPECTOR PRIOR TO PLACING THE MATERIAL IN THE TRENCH.

A MINIMUM OF FOUR 6x12 TEST CYLINDERS SHALL BE TAKEN EVERY 50 CY OF PLACEMENT. CYLINDERS SHALL BE TESTED BY A QUALIFIED TESTING LABORATORY FOR 28-DAY STRENGTH. RESULTS SHALL BE PROVIDED TO THE INSPECTOR WITHIN 24 HOURS OF TESTING COMPLETION. THE COST OF ALL TESTING IS THE RESPONSIBILITY OF THE PERMITTEE. IF THE REPORT INDICATES THE COMPRESSIVE STRENGTHS ARE NOT BETWEEN 30 AND 200 PSI, THE PERMITTEE WILL BE RESPONSIBLE FOR REMOVING AND REPLACING THE BACKFILL WITH ACCEPTABLE BACKFILL AND COMPLETING THE RESTORATION OF THE STREET AT NO COST TO THE CITY.
6. ALL ASPHALT PAVEMENT DEPTHS SHALL BE DETERMINED BY THE PRESENCE OF LANE STRIPING ON THE STREET. FOR STREETS WITH LANE STRIPING, THE MINIMUM DEPTH SHALL BE 8" AND CONSIST OF TWO 3" LIFTS OF ASPHALT BASE MIX AND ONE 2" LIFT OF ASPHALT SURFACE MIX. FOR STREETS WITHOUT LANE STRIPING, THE MINIMUM DEPTH SHALL BE 4 INCHES AND CONSIST OF ONE 2-1/2" LIFT OF ASPHALT BASE MIX AND ONE 1-1/2" LIFT OF ASPHALT SURFACE MIX. THE ASPHALT SURFACE LAYER SHALL EXTEND OVER UNDISTURBED BASE A MINIMUM OF 12" ON ALL SIDES. ALL PAVEMENT MATERIALS SHALL MEET VDOT REQUIREMENTS FOR SURFACE MIX (SM-9.5AL, SM-9.5A, OR SM-12.5D), BASE MIX (BM-25), AND STONE AGGREGATE (21A OR 21B). PLANT CERTIFICATION FOR EACH MIX INCORPORATED INTO THE WORK SHALL BE PROVIDED TO THE INSPECTOR. WHEN MATCHING NON-STANDARD MATERIALS, THE INSPECTOR SHALL DETERMINE AN ACCEPTABLE MATERIAL.
7. THE REPAIR SHALL BE RECTANGULAR AND SAW CUT IN STRAIGHT, UNIFORM LINES THAT ARE ALIGNED WITH THE STREET CENTERLINE. WHEN EDGES OF PAVEMENT HAVE BEEN UNDERMINED, PAVEMENT SHALL BE REMOVED TO A NEAT LINE 12" BEYOND THE UNDERMINED AREA. ANY INITIAL PAVEMENT REPAIR WITH AN AREA GREATER THAN 40 SQUARE FEET MAY BE NON-RECTANGULAR, HOWEVER, THE REPAIR SHALL BE SAW CUT IN STRAIGHT, UNIFORM LINES. ANY OTHER DEVIATION ON PATCH SHAPE MUST BE APPROVED BY THE INSPECTOR PRIOR TO THE REPAIR BEING MADE. THE FINISHED PATCH SURFACE SHALL BE WITHIN 1/4 INCH AT ANY POINT ACROSS THE PATCH AS IT RELATES TO THE SURROUNDING STREET SURFACE.
8. A FULL COVERAGE TACK COAT IS REQUIRED ON ALL SURFACES THAT WILL CONTACT THE NEW SURFACE LAYER.

OFFICE OF THE CITY ENGINEER - ROANOKE, VIRGINIA

APPROVED

CITY ENGINEER

UTILITY TRENCH REPAIR IN PAVEMENT
USING CONTROLLED DENSITY FILL

UTR-2

DATE:

ATTACHMENT 2

RIGHT-OF-WAY EXCAVATION PERMIT APPLICATION

RIGHT-OF-WAY EXCAVATION PERMIT APPLICATION

submit 2 copies of application, site plan, cost estimate, and (if required) traffic control plan



Permit # _____
Issue Date: _____
Issued for _____ calendar days
Inspection Fee: \$ _____
Bond Amount: \$ _____

OFFICE USE ONLY

I. Application Date: _____ Requested Duration: _____ calendar days
Worksite Address: _____ Quad: _____ TM#: _____
Permittee Name: _____ Utility Owner Name: _____
Permittee Address: _____
(Street) (City) (State) (Zip)
Construction Contact Person: _____ Fax# _____ Phone # _____

II. Description of Work for Street Improvements: If part of a Site Plan, Plan No.: _____

III. Description of Work for Utility: Utility Type: _____
A. _____

B. Method of Construction:
☐ Open Cut ☐ Direct Bury ☐ Horizontal Directional Drilling (HDD) ☐ Other:
C. Limits of Initial Repair- please list cut size in feet for each pavement type:
Asphalt Pavement: _____ (l) x _____ (w) across _____ lanes
Sidewalk: _____ (l) x _____ (w) Grass: _____ (l) x _____ (w) Curb: _____ (ft.) No. of Concrete Entrances: _____
Other: _____
D. Limits of Final Pavement Restoration (mill and overlay) – refer to Paving Program Candidate List:
☐ Pavement Markings ☐ No Pavement Markings
☐ Street on Paving Program Candidate List: Final Restoration not required
Estimated Limits of mill and overlay: _____ (l) x _____ (w) Adjust _____ manhole rims
Final Limits subject to adjustment by right-of-way inspector.

IV. Estimated Cost of Work: \$ _____ (attach estimate worksheet)

V. SPECIAL INSTRUCTIONS AND/OR PROVISIONS – OFFICE USE ONLY:

RIGHT-OF-WAY EXCAVATION PERMIT APPLICATION – PAGE 2 OF 2

Application Date: _____ Permit #: _____

A Permit Application will not be reviewed unless accompanied by a scaled site plan of proposed work. Site plan shall show all requested work on the application including city right of way line, edge of pavement, curb & gutter, sidewalk, driveways, closest cross street, city trees and north arrow. Existing utility lines and reference them to the edge of pavement. All work shall be done in accordance with this application or as amended by this office. Detailed traffic control plan must be provided, if required. Please submit application and site plan in duplicate (2 copies). Allow ten (10) business days for review.

LIABILITY OF PERMITTEE: Each Permittee is wholly responsible for the quality of the Excavation performed in the Public Right of Way and is liable for all consequences of any such Excavation and any Facilities installed in the Public Right of Way. Permittee agrees and binds itself to indemnify, keep and hold the City, its officers, agents, and employees (hereafter collectively referred to in this paragraph as City) free and harmless from any and all claims, causes of action, damages or any liability, including reasonable attorney's fees and costs, on account of any injury or damage of any type to any persons or property (including City property) growing out of, or directly or indirectly resulting from, any act or omission of Permittee, including but not limited to: (a) Permittee's use of the public ways or other areas of the City; (b) the acquisition, construction, reconstruction, erection, installation, operation, maintenance, repair or extension of Permittee's facilities within the Public Right of Way; (c) the failure, refusal or neglect of Permittee to perform any duty imposed upon or assumed by Permittee by or under its permit. The issuance of any permit, inspection, repair, or suggestion, approval or acquiescence of any person affiliated with the Division shall not excuse the Permittee from such responsibility or liability.

The applicant further agrees to accept full responsibility to provide work zone safety in accordance with the current edition of the Manual for Uniform Traffic Control Devices and the Virginia Work Area Protection Manual.

WARRANTY: In the event that subsurface material, curbing, sidewalk, or pavement over or immediately adjacent to any excavation should become depressed, broken, or fail in any way within one (1) year after the excavation has been completed and designated as such by the City, the Permittee and the Permittee's subcontractor who did such work in the Right of Way shall make the necessary repairs as directed by the Division. The Transportation Division shall notify the Permittee or subcontractor of the condition, location, and the required remedy, and such Permittee or subcontractor shall repair or restore, or cause to be repaired or restored, such condition to the satisfaction of the Transportation Division Manager within thirty (30) calendar days of the notification. If a failure poses a hazardous situation, the Permittee or subcontractor shall restore such condition within seventy-two (72) hours of the notification. The Transportation Division Manager may extend the time for such party to repair or to restore the affected Public Right of Way. All warranty repairs shall comply with Section 5.0 of the City of Roanoke Right of Way Excavation and Restoration Standards (Standards). All repairs to areas damaged as a result of performing the work covered under the permit shall be covered by the warranty. All such repair or restoration work shall be subject to an additional warranty period of one (1) year from the date of completion of such work. Failure of any such work will be repaired or restored as set forth above or as otherwise provided in the Standards.

I certify that the above information is accurate, that proper permission from the utility owner has been obtained to perform the work, that all work will be done in accordance with the current edition of the City of Roanoke Right of Way Excavation and Restoration Standards, and that the owner and the undersigned, if different, agree to the terms of such Standards.

Printed Name of Permittee or Authorized Agent

Date

Signature of Permittee or Authorized Agent
(original signature required for approval)

Date

Approved: _____
City of Roanoke Authorized Agent

ATTACHMENT 3

EXCAVATION PERMIT BOND FORM

EXCAVATION PERMIT BOND

KNOW ALL MEN BY THESE PRESENTS:

That _____,
complete legal name and address of entity requesting Permit

(hereinafter called Principal),

and _____,
complete legal name and address of Surety

a corporation organized and existing under the laws of _____ (state), with its home office in _____, as Surety (hereinafter called Surety), are held and firmly bound unto the City of Roanoke, Virginia, a municipal corporation, c/o the City Manager, 364 Municipal Building, 215 Church Avenue, S.W., Roanoke, Virginia 24011, as Obligee (hereinafter called Obligee or City) , in the full amount of _____ Dollars (\$ _____) for the payment of which sum well and truly to be made, we, the said Principal and Surety hereby bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents to the terms of this Bond.

WHEREAS, Principal will or has obtained an Excavation Permit(s) through the City of Roanoke's Transportation Division that will allow the Principal to make an excavation(s) and perform work within the City's Public Right of Way as provided for in such Permit(s) and in accordance with the City of Roanoke Right of Way Excavation and Restoration Standards (Standards). All the terms and conditions of such Permit(s) and Standards are hereby incorporated herein by reference and made a part hereof as if fully set forth herein.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS SUCH that if the Principal shall well and truly perform and fully carry out the work authorized by such Excavation Permit(s), including, but not limited to repair and/or restoration of street surfaces, sidewalks, and other City property, in strict conformity with such Permit(s) and Standards and the Principal shall defend all suits and hold Obligee harmless against any and all claims or damages of any type as required by such Permit(s) and Standards, then this obligation shall be void; otherwise, this Excavation Permit Bond shall remain in full force and effect, and the Surety will comply with such Permit(s), and is subject to the following conditions:

1. Any alteration which may be made to the terms of such Permit(s) and Standards including, without limitation, any waiver by the Obligee of any particular breach or term of such Permit(s) and/or Standards or any extension of time of performance of any term or condition of such Permit(s) and/or Standards or any other forbearance of any nature whatsoever on the part of either the Obligee or the Principal to the other shall not in any way release the Principal and the Surety, or either of them, their heirs, executors, administrators, successors, or assigns from their liability hereunder, and notice of such alteration, extension, or forbearance is hereby expressly waived by the Surety.

2. The Surety hereby agrees to and hereby submits itself to a court of competent jurisdiction in the City of Roanoke, Virginia, and further agrees that this Bond is controlled by the laws of the Commonwealth of Virginia and that all claims, disputes and other matters shall be decided only by such court according to the laws of the Commonwealth of Virginia and not elsewhere.
3. The Surety agrees that it will not change, alter, or cancel this Excavation Permit Bond for a period of one year from the date of such Bond or any renewal date of such Bond.
4. Notwithstanding any other provisions of this Bond, the City may institute a claim and/or suit under this Bond within the longer period of time of the following: (i) completion of the Work covered by this Bond, including the expiration of all warranties and guarantees for such Work; (ii) discovery of the defect or breach of warranty; or (iii) as may otherwise be allowed by law.

SIGNED and SEALED this ____ day of _____, 20__.

WITNESS:

Signature

Typed name of Witness

Complete legal name of Principal

By _____

Printed name of Person and Title

(Seal of Principal)

WITNESS:

Signature

Typed name of Witness

Complete Typed Legal Name of Surety

By _____

Attorney-in-Fact

Printed name of Person

(Seal of Surety)

Approved as to Form

Approved by Public Works Department

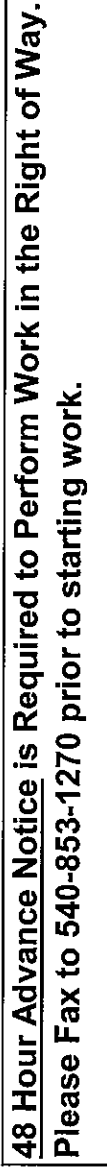
City Attorney

Director of Public Works

(NOTE: Attorneys-in-fact affix seal and attach original or certified copy of current power of attorney)

ATTACHMENT 4

WORK LOCATION SHEET



Contact Person:

ROW WORK SHEET.xls